

FIG. 1(A) FORMATION OF UNDERLYING FILM/AMORPHOUS SEMICONDUCTOR FILM

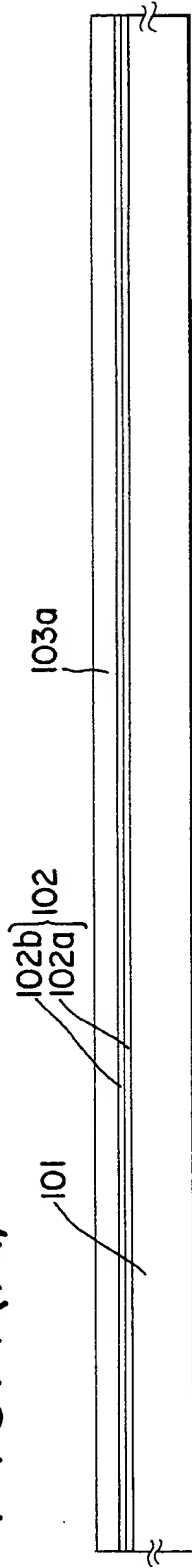


FIG. 1(B) CRYSTALLIZATION STEP

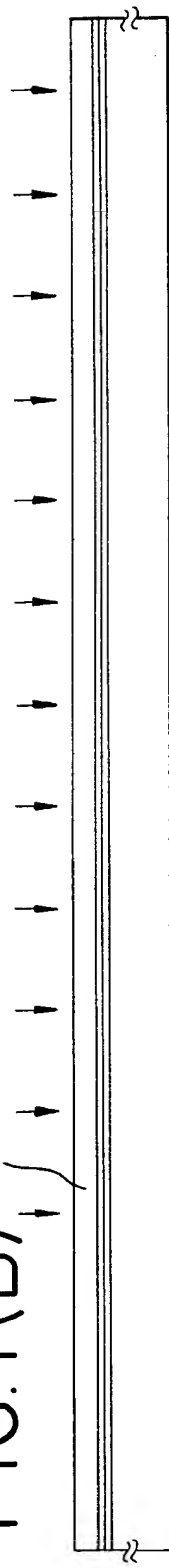


FIG. 1(C) FORMATION OF ISLAND SHAPE SEMICONDUCTOR LAYER/GATE INSULATION FILM

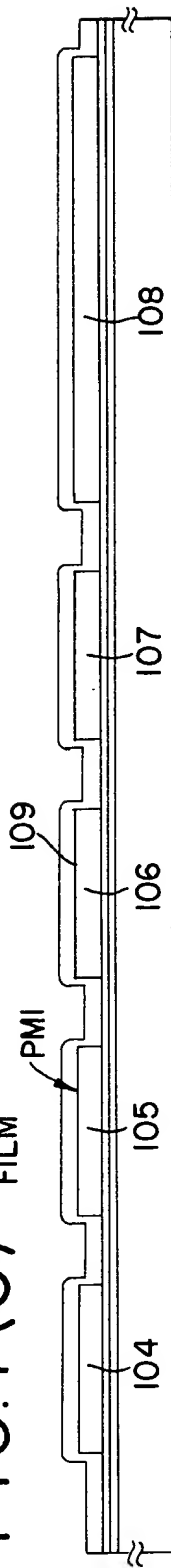
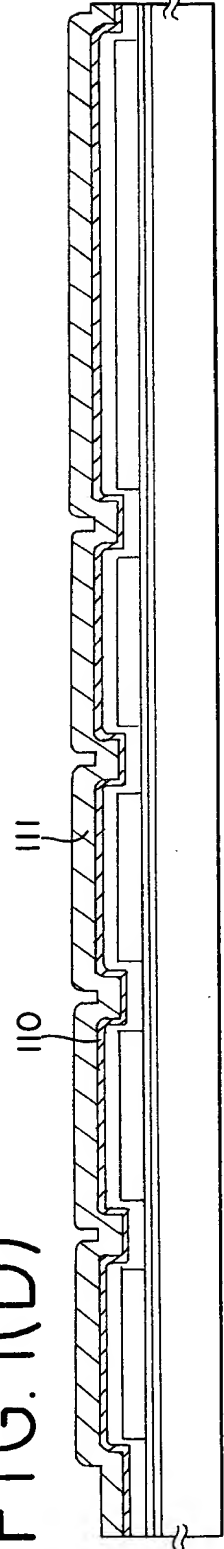


FIG. 1(D) FORMATION OF HEAT-RESISTANT CONDUCTOR LAYER



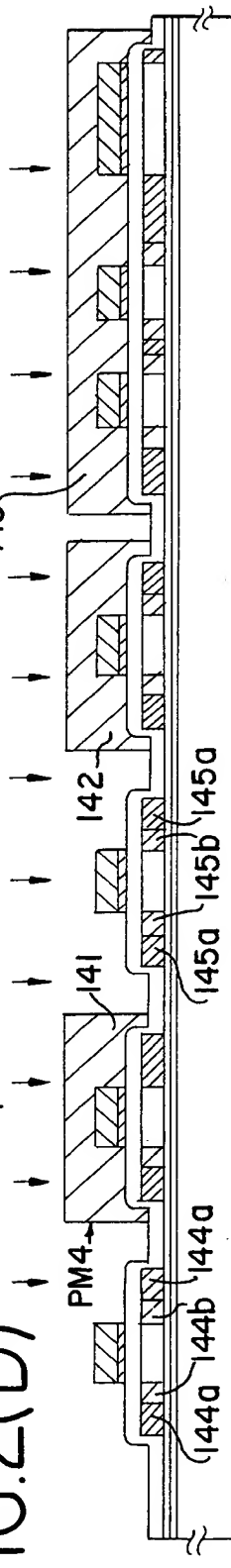


FIG. 3(A)

FORMATION OF PROTECTIVE INSULATION FILM

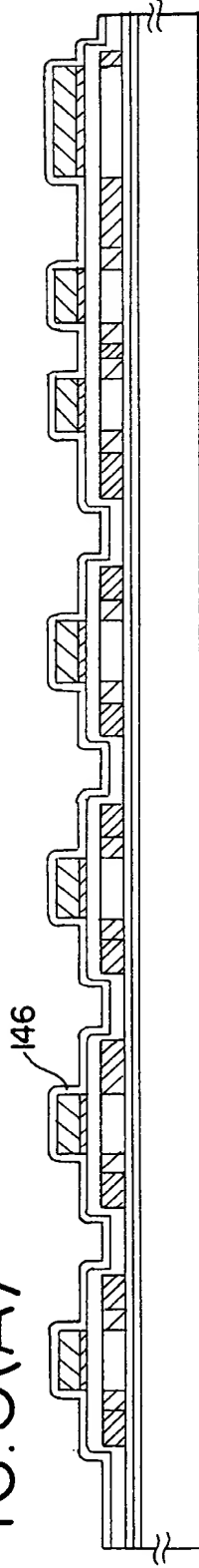


FIG. 3(B)

ACTIVATION STEP

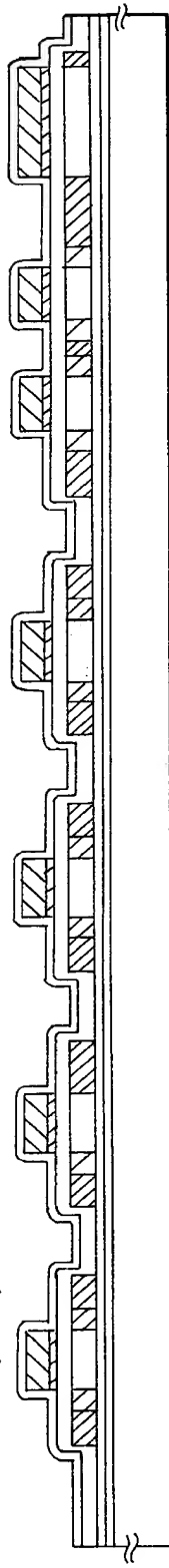


FIG. 3(C)

FORMATION OF RESIN INTER-LAYER INSULATION FILM / PERFORATION OF CONTACT HOLE / FORMATION OF LEAD WIRE AND PIXEL ELECTRODE

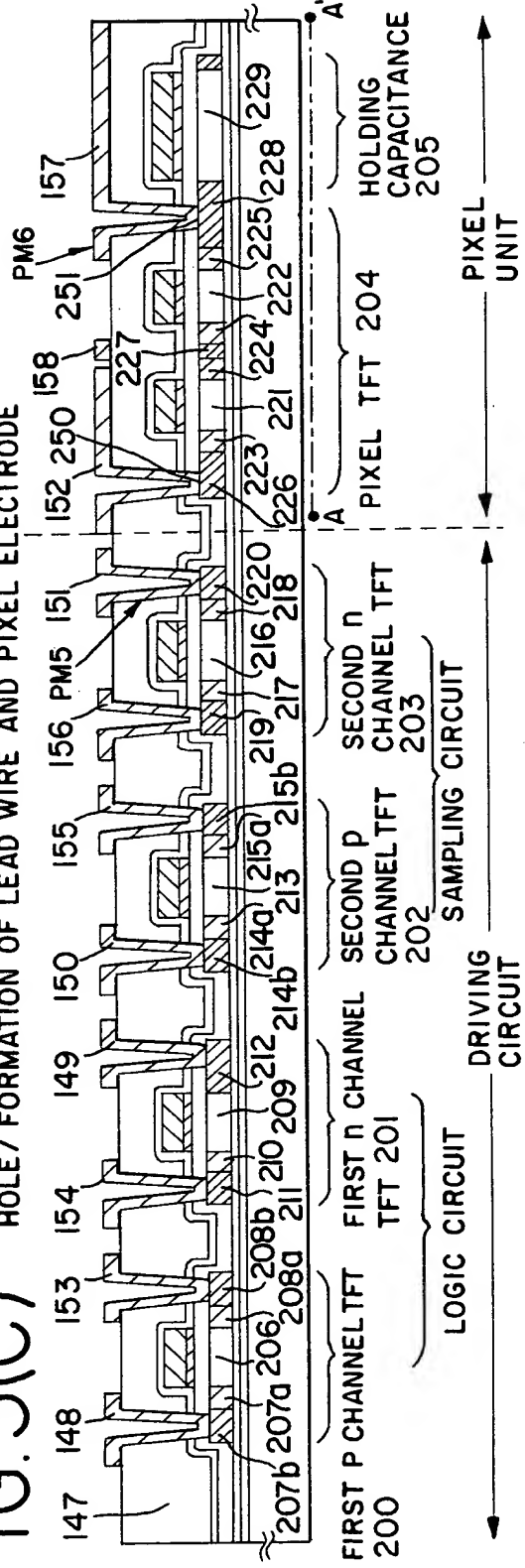


FIG. 4(A)

n- DOPING STEP

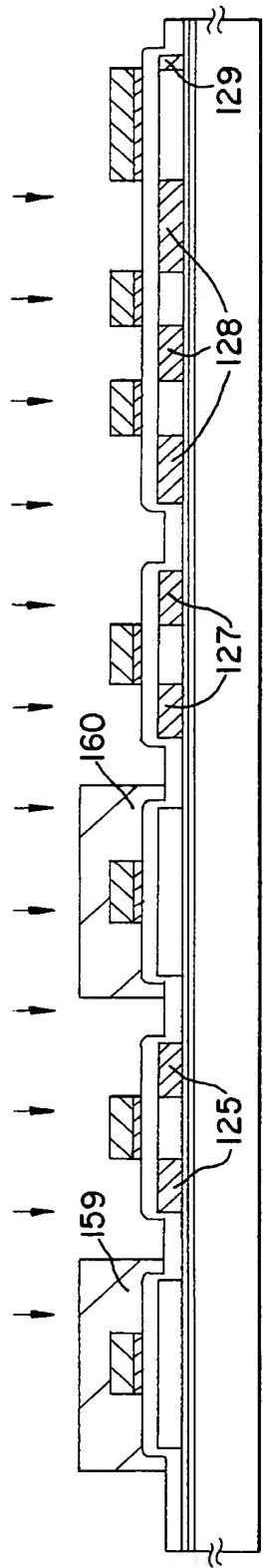


FIG. 4(B)

n+ DOPING STEP

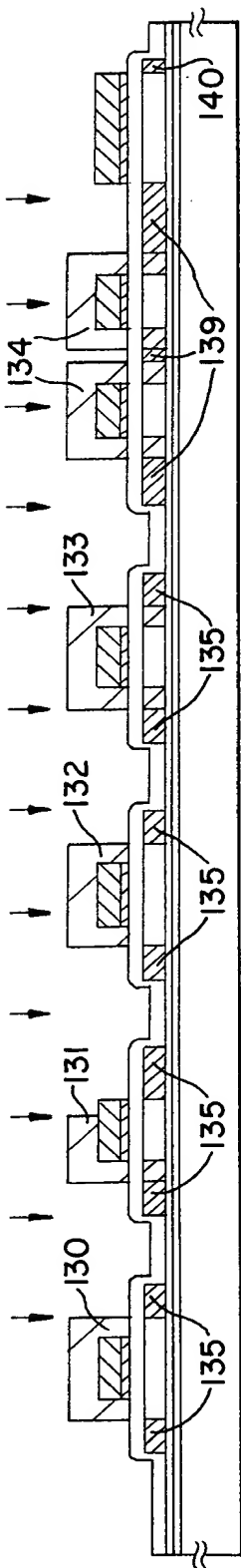


FIG. 4(C)

p+ DOPING STEP

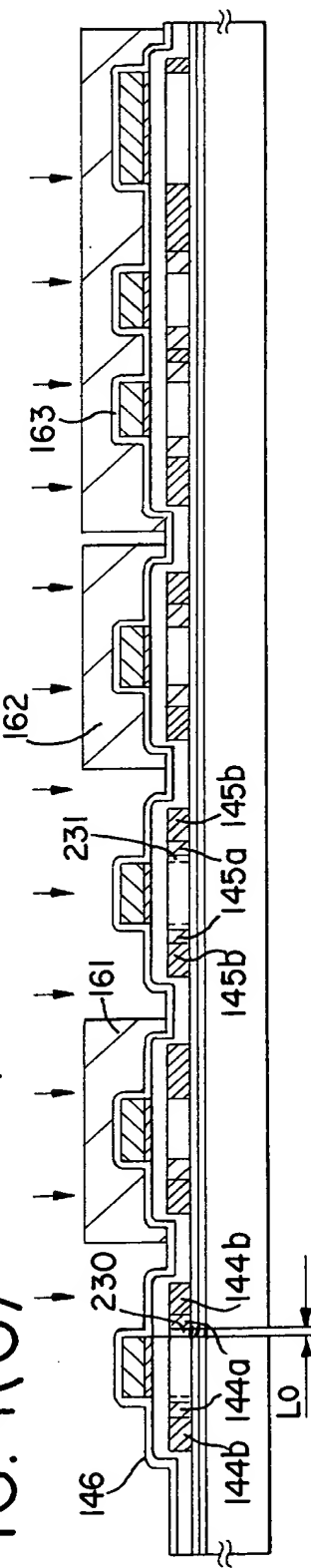


FIG. 5(A)

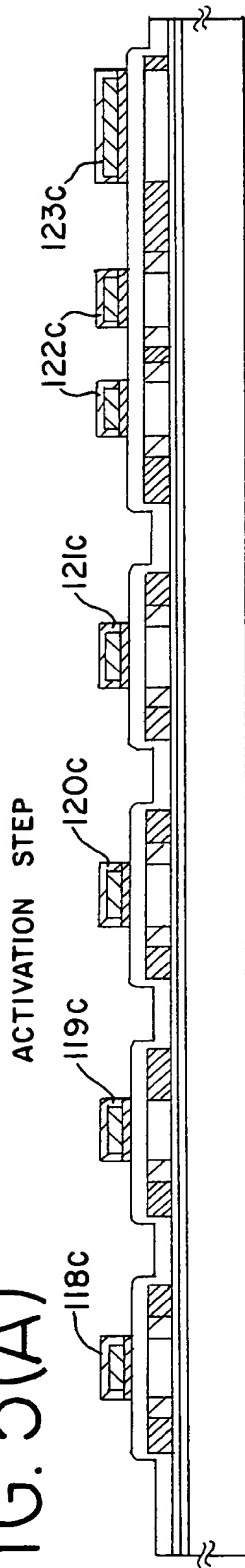


FIG. 5(B)

FORMATION OF LOW RESISTANCE CONDUCTIVE LAYER /
FORMATION OF PROTECTIVE INSULATION FILM

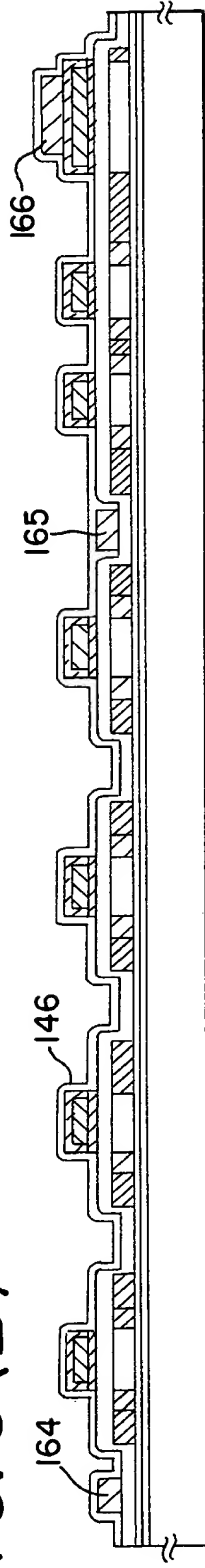


FIG. 5(C)

FORMATION OF RESIN INTER-LAYER INSULATION FILM / PERFORATION OF CONTACT
HOLE / FORMATION OF LEAD WIRE AND PIXEL ELECTRODE

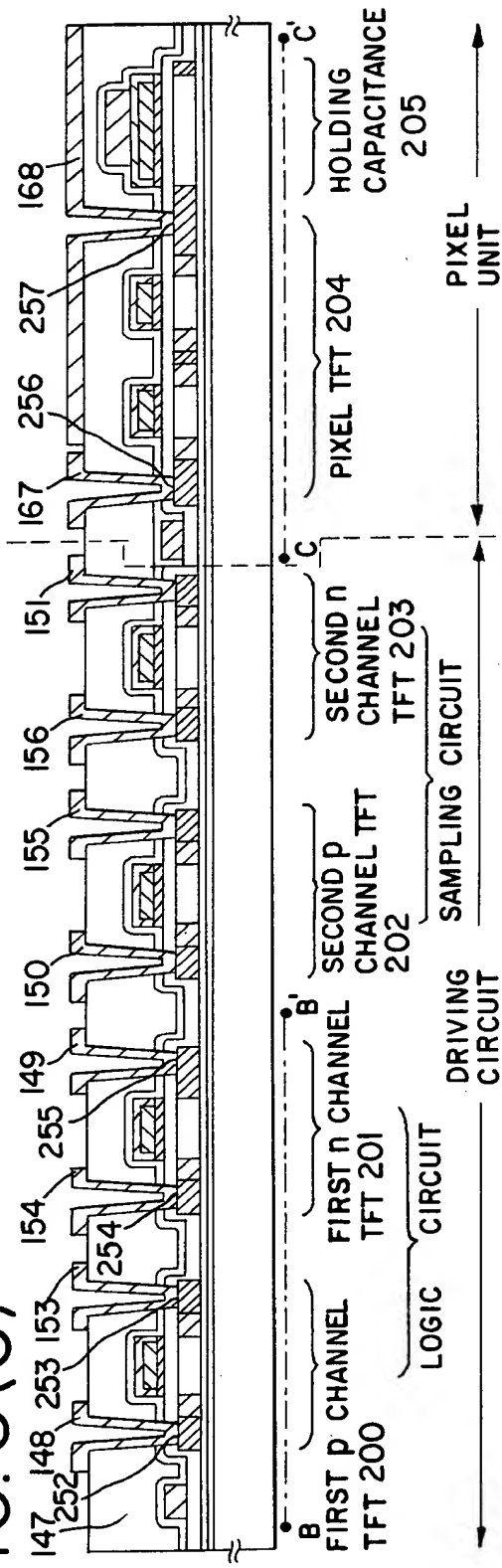


FIG. 6(A)

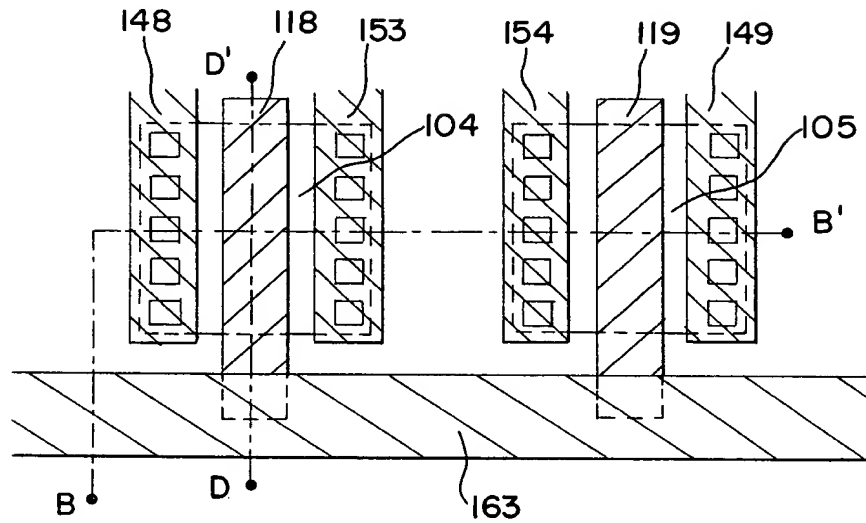


FIG. 6(B)

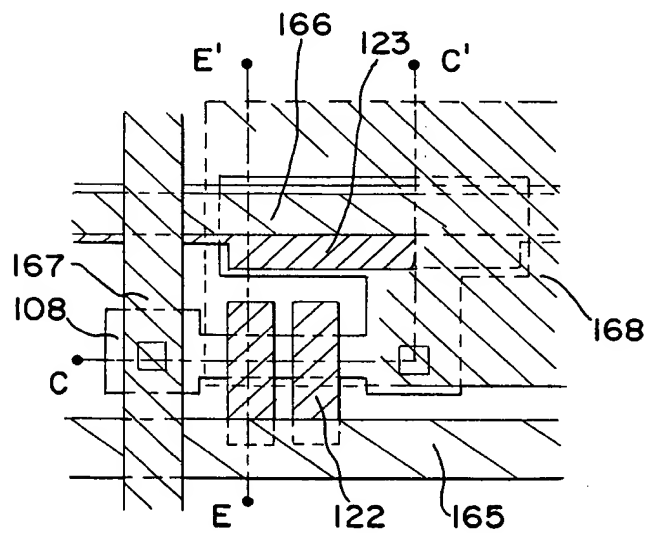


FIG. 7(A)

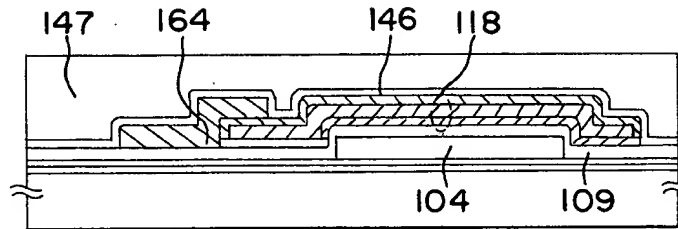


FIG. 7(B)

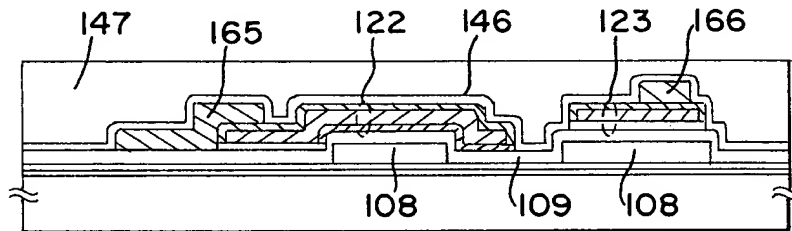


FIG. 8(A)

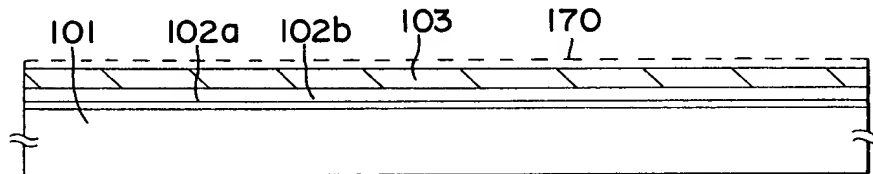


FIG. 8(B)

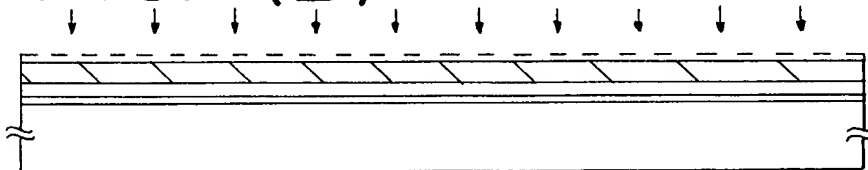


FIG. 8(C)

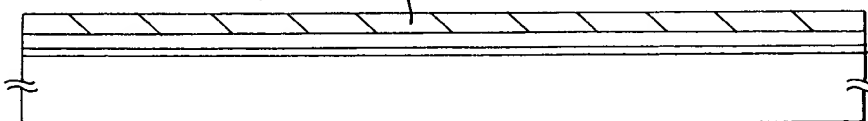


FIG. 9 ACTIVATION

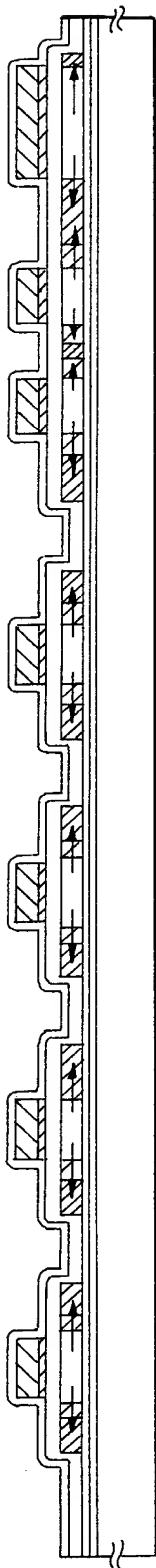


FIG. 10(A)

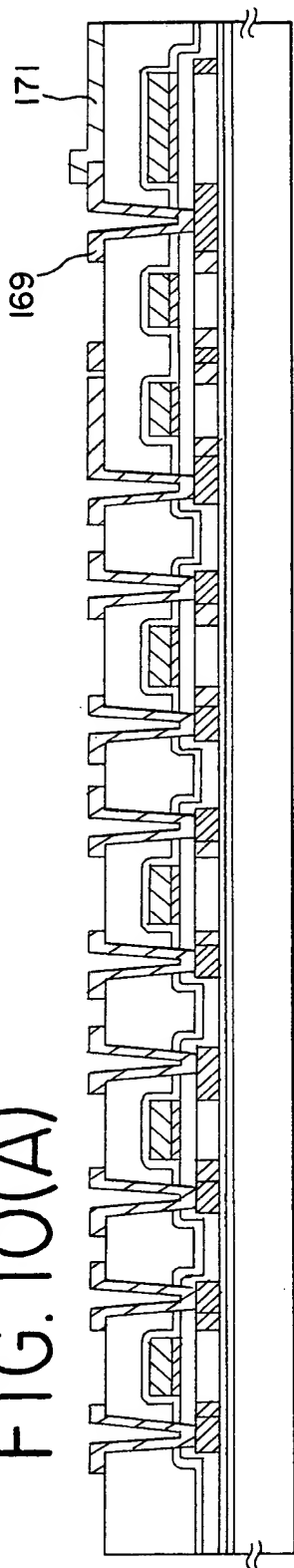


FIG. 10(B)

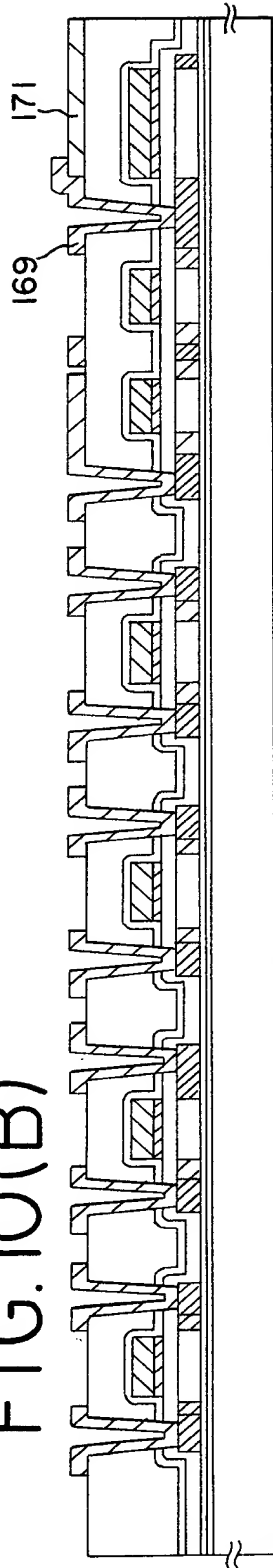


FIG. 11(A)

FORMATION OF ORIENTATION FILM / FORMATION OF SPACER /
RUBBING TREATMENT

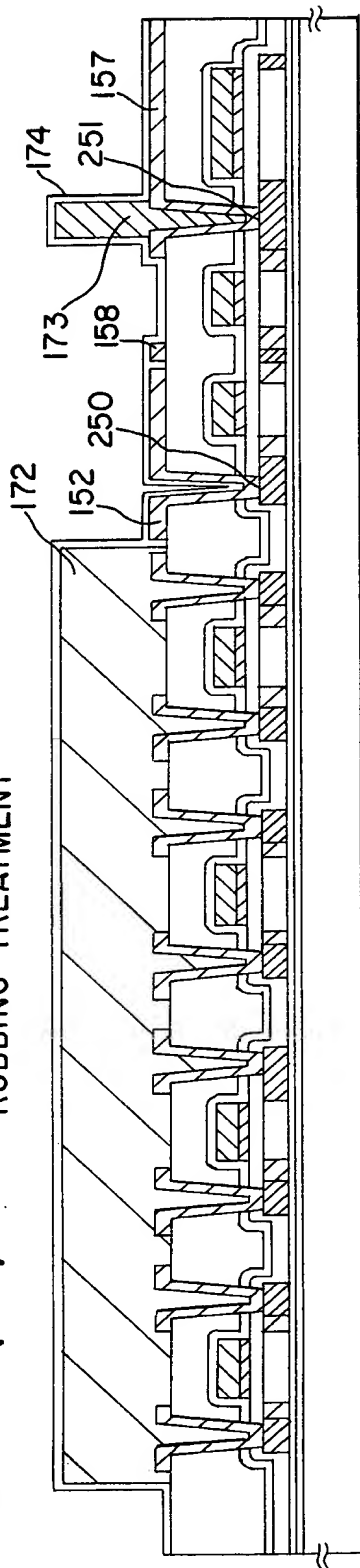


FIG. 11(B)

BONDING OF OPPOSED SUBSTRATE

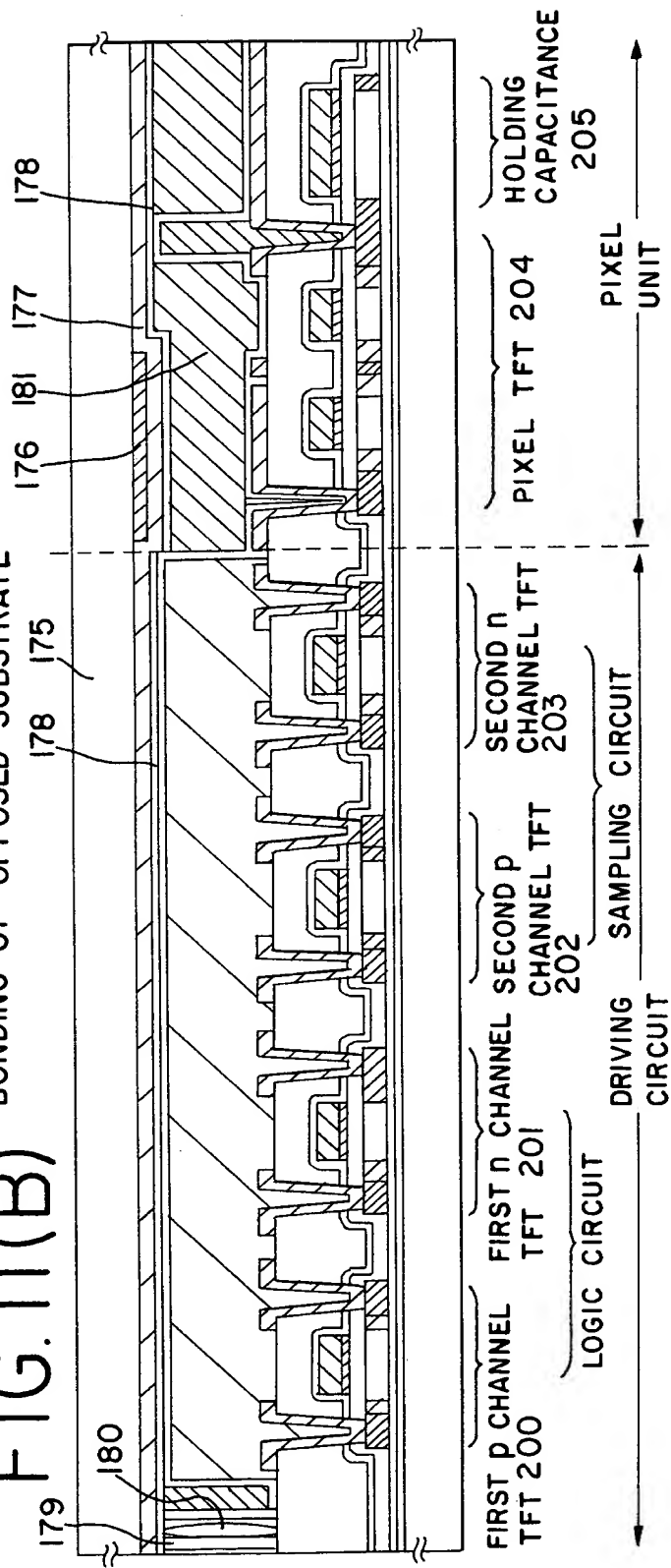


FIG. 12

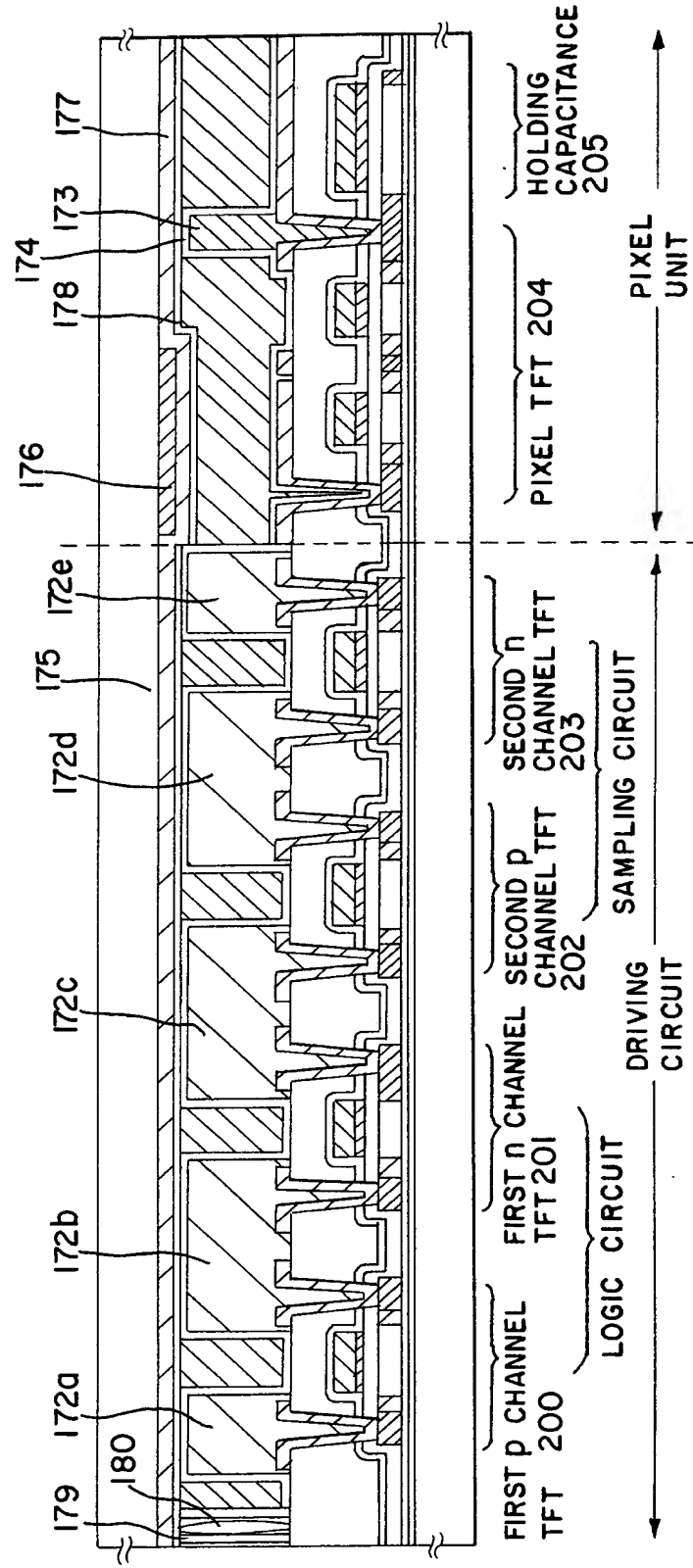
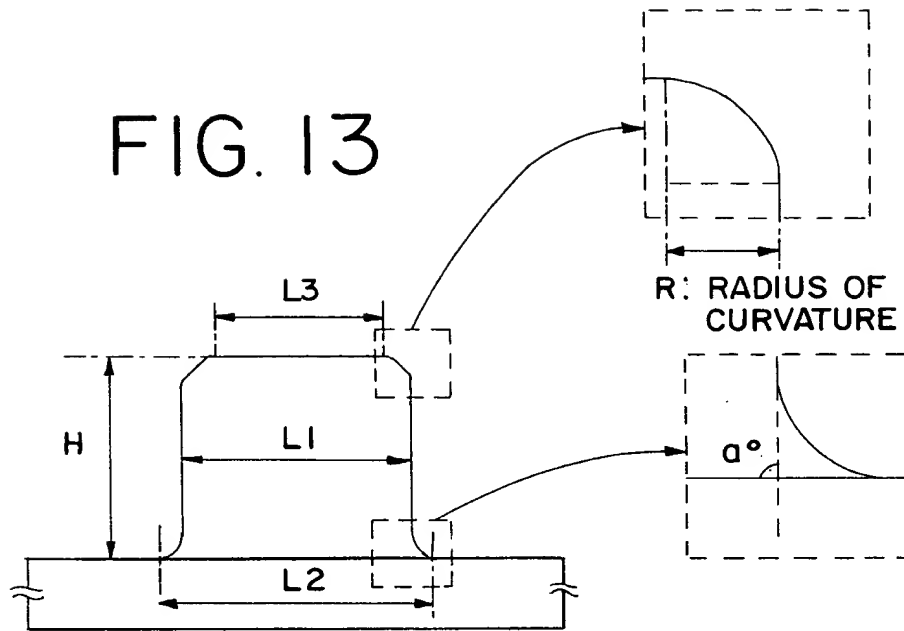


FIG. 13



SECTIONAL TYPICAL VIEW
OF SPACER

FIG. 14

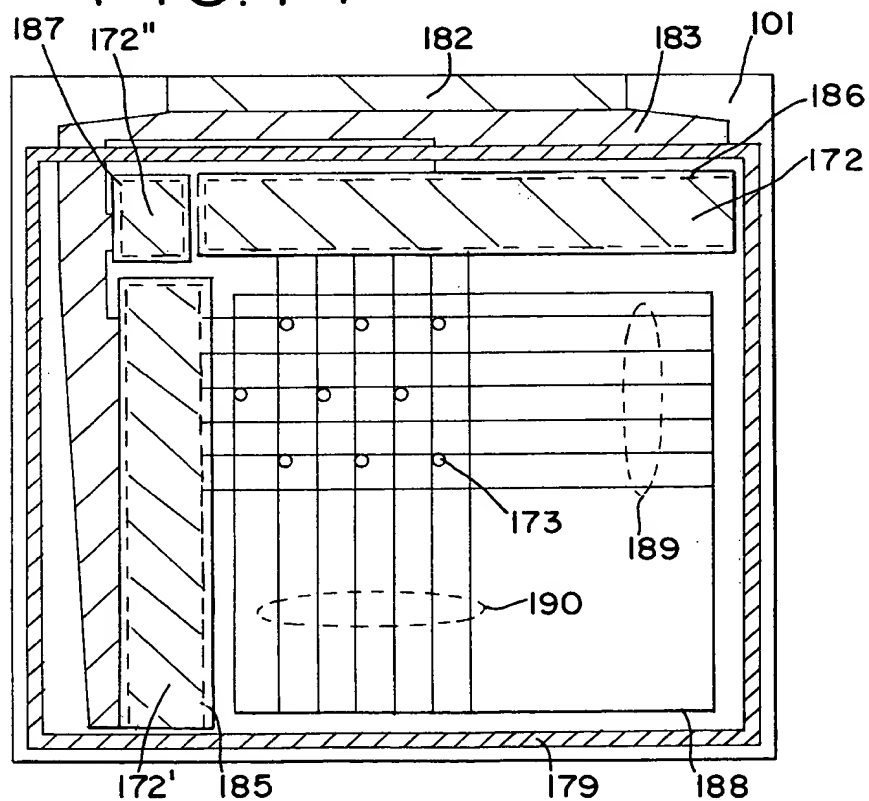


FIG. 15

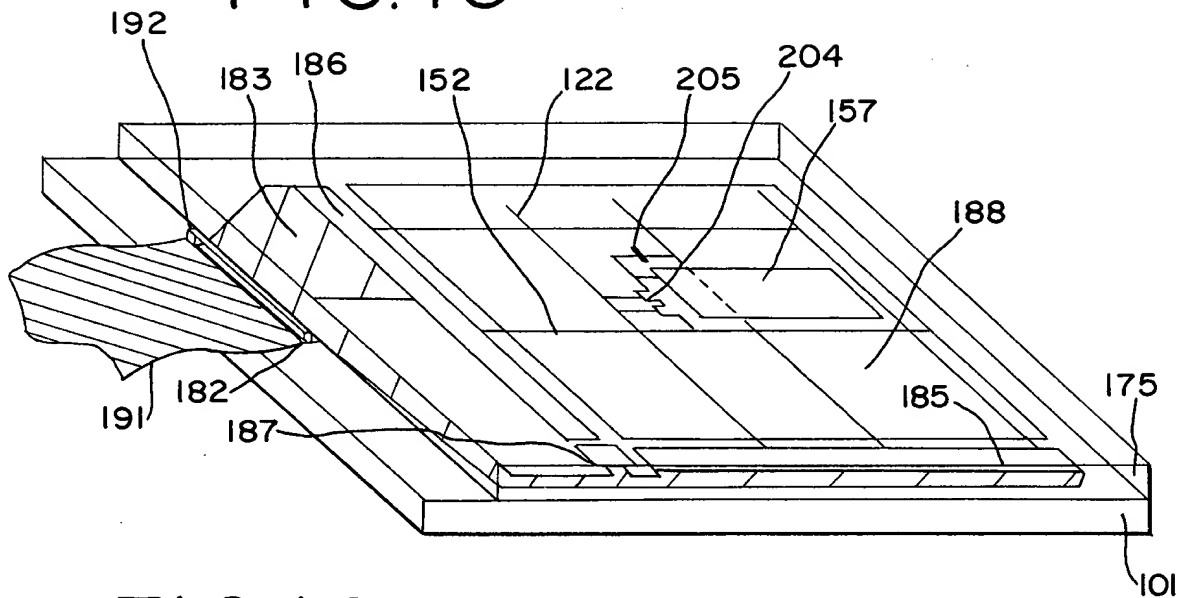
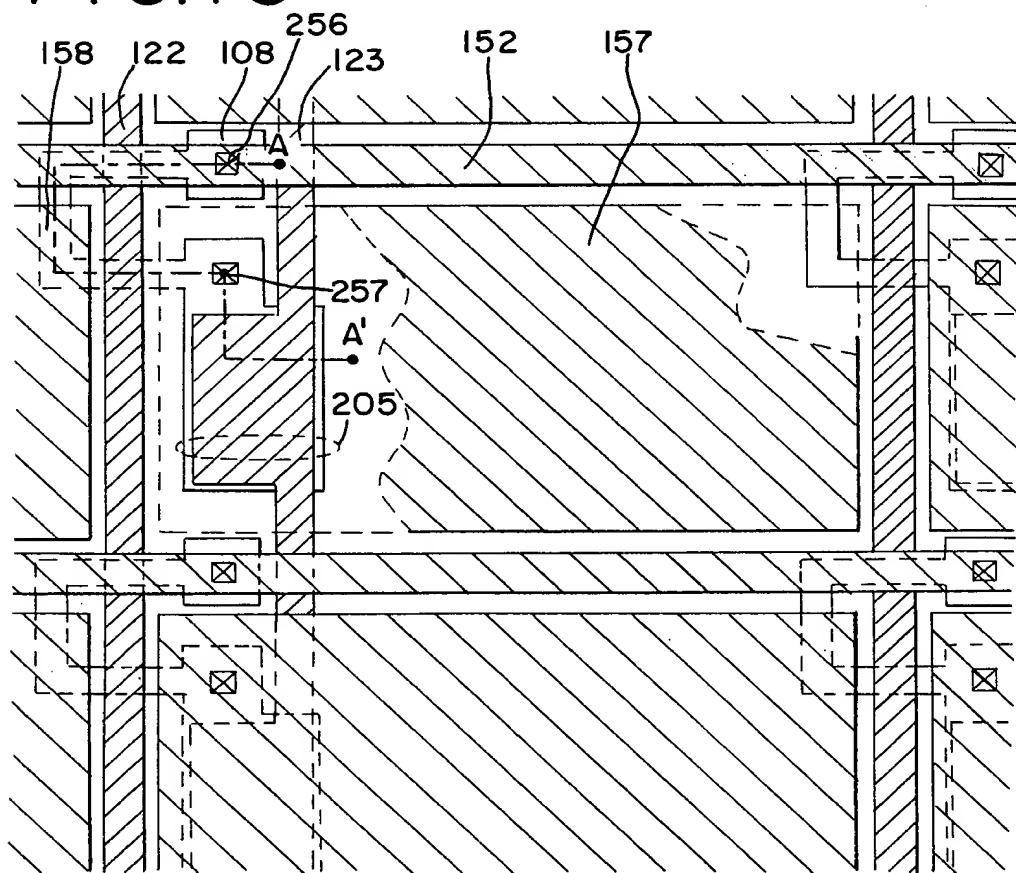


FIG. 16



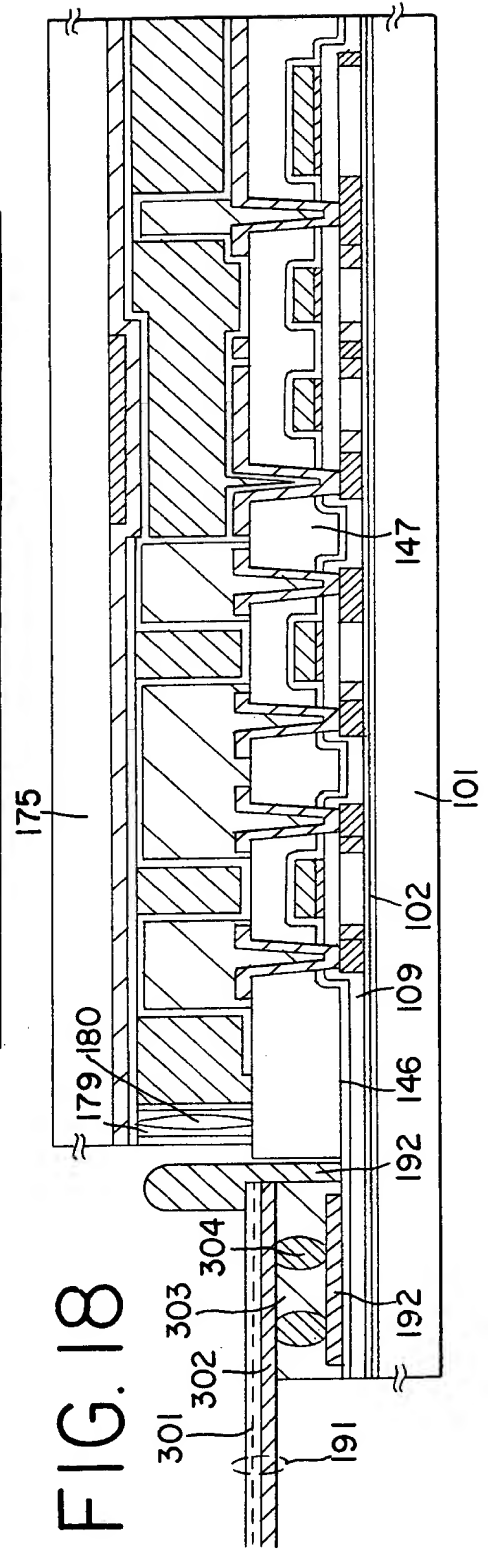
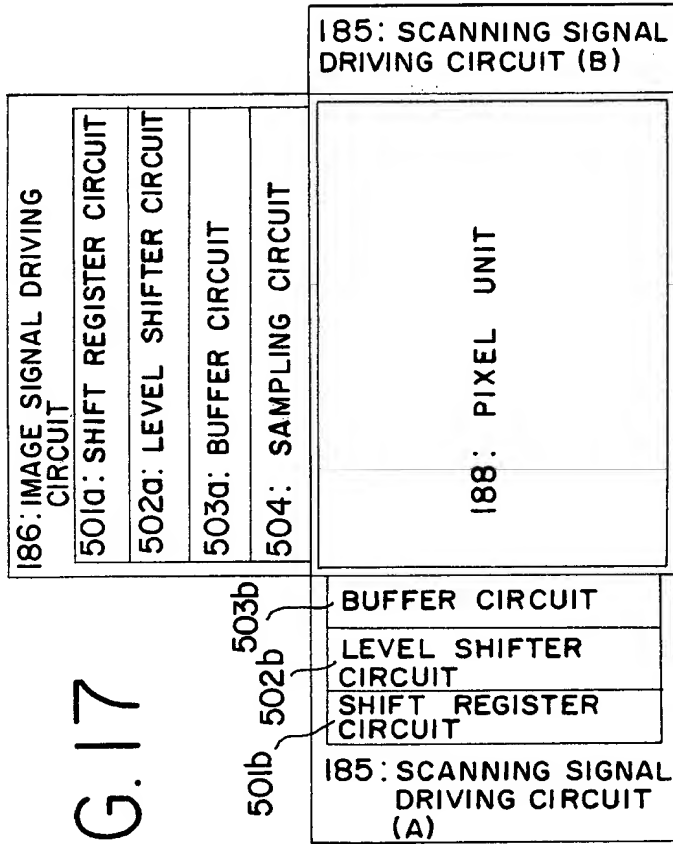


FIG. 19

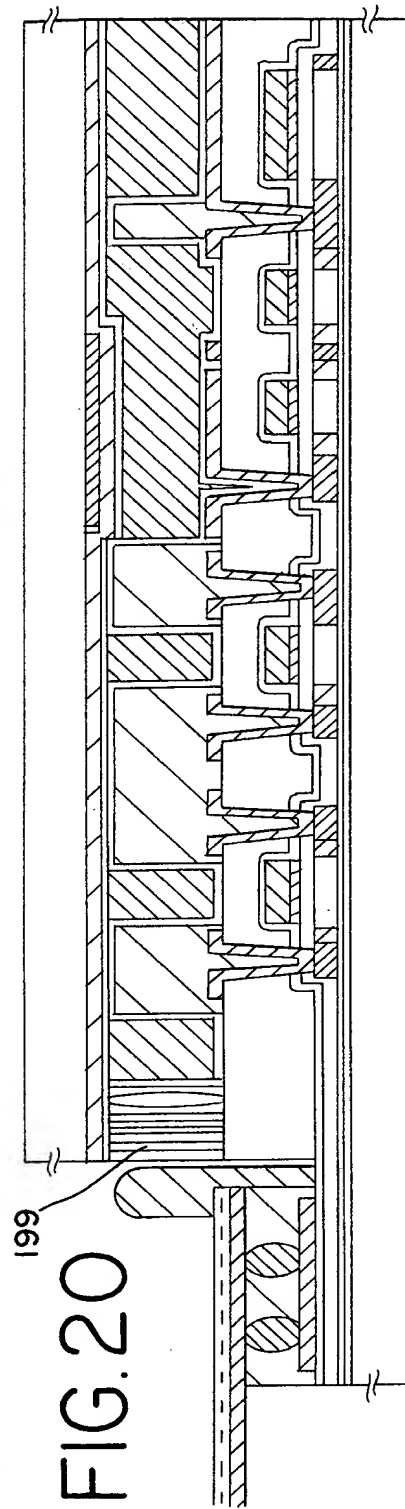
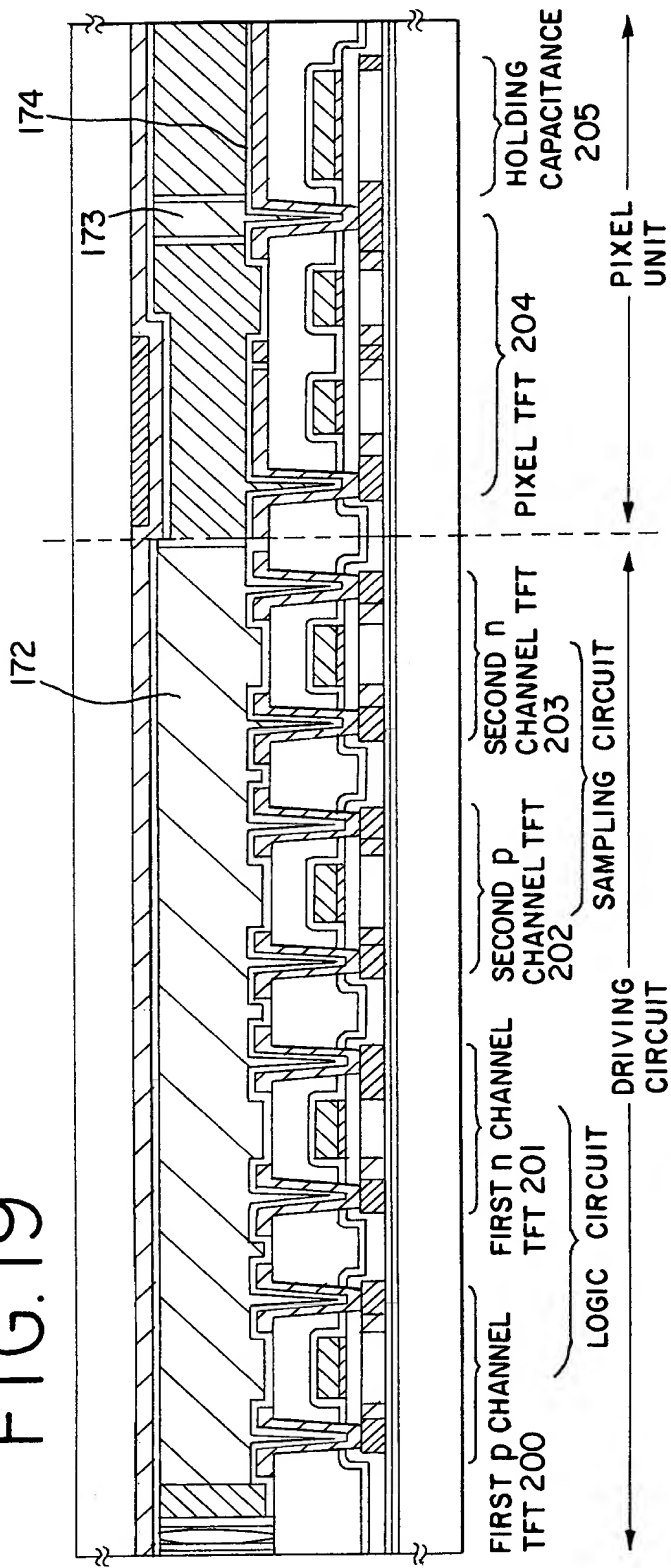




FIG.21(A)

APPEARANCE VIEW AND SECTIONAL VIEW OF PORTABLE INFORMATION TERMINAL (OPTICAL TOUCH PANEL)

- DISPLAY DEVICE 2205
- TOUCH PANEL 3002
- LCD PANEL 3003
- LED BACK-LIGHT 3004

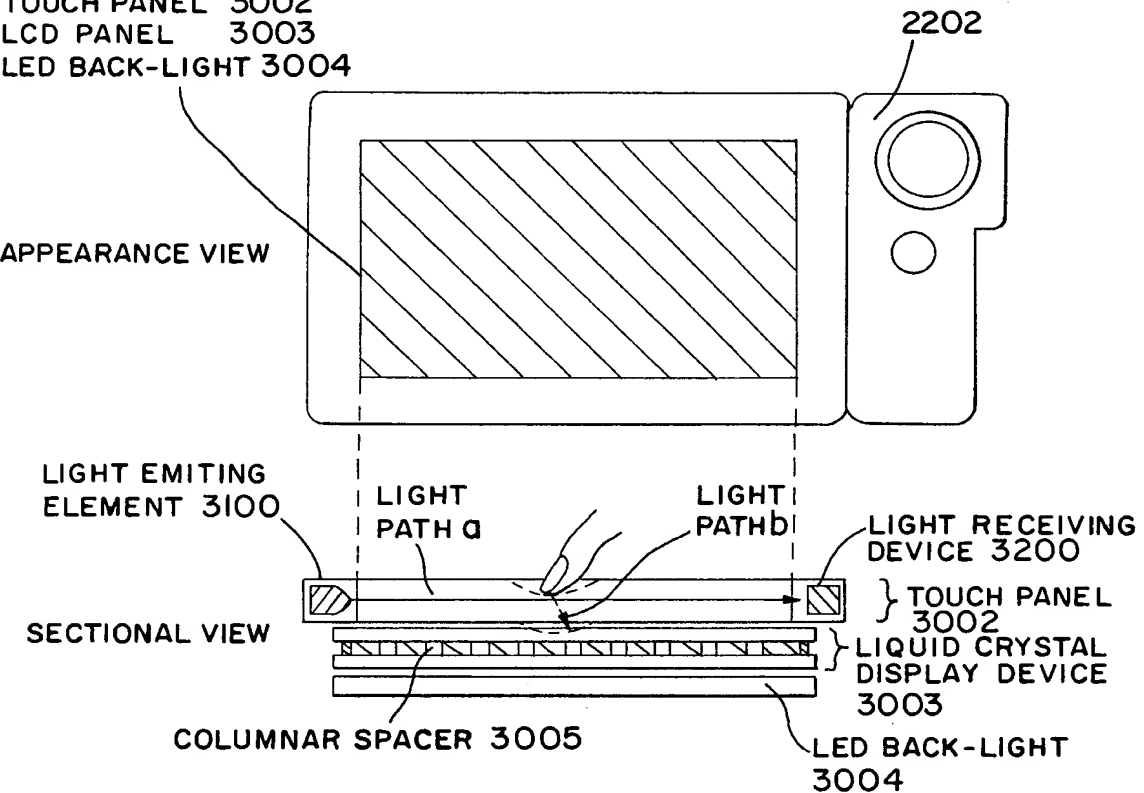


FIG.21(B)

SECTIONAL VIEW OF PIXEL UNIT

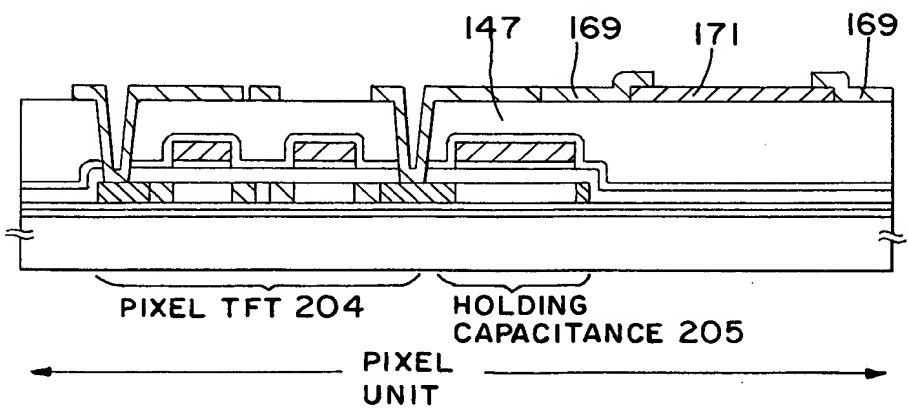


FIG.22(A)

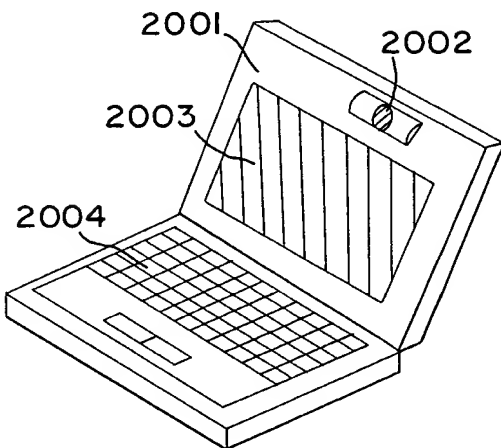


FIG. 22(B)

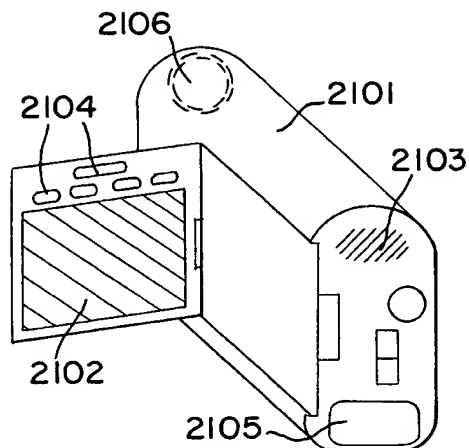


FIG.22(C)

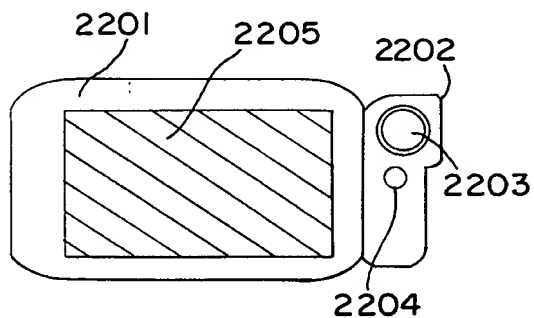


FIG.22(D)

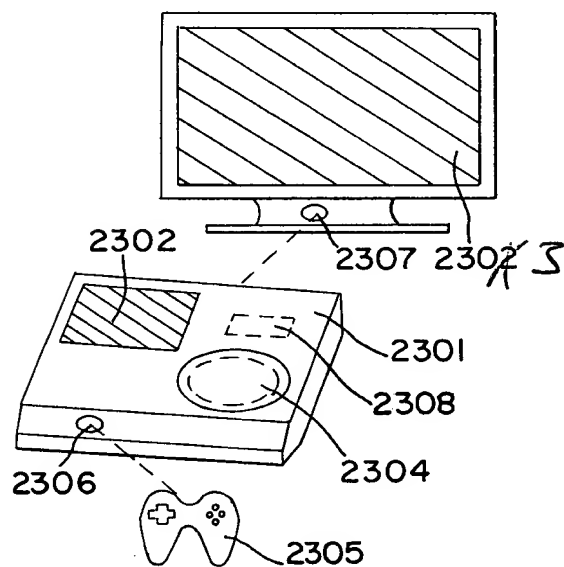


FIG.22(E)

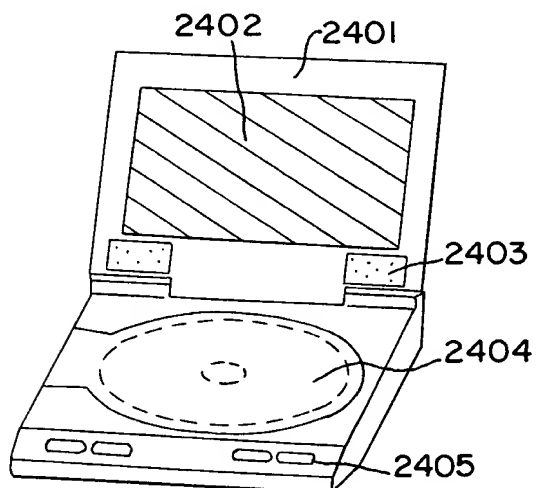


FIG.22(F)

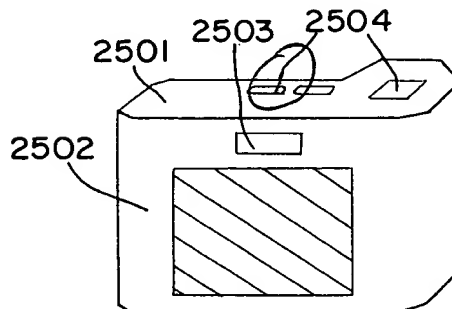


FIG. 23(A)

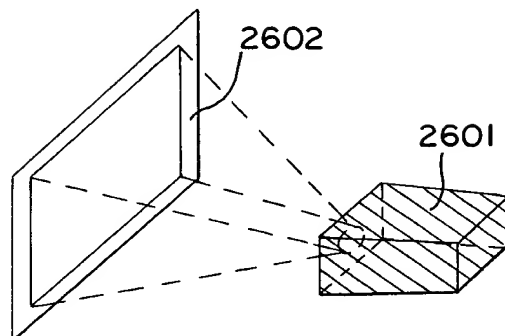


FIG. 23(B)

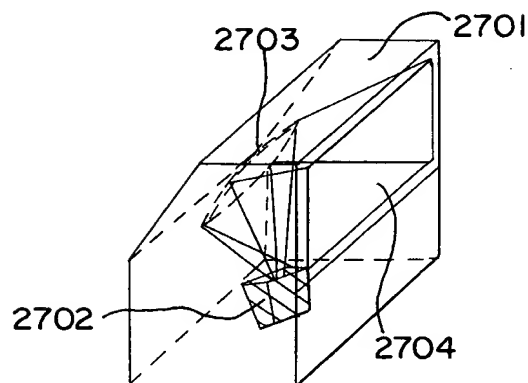


FIG. 23(C)

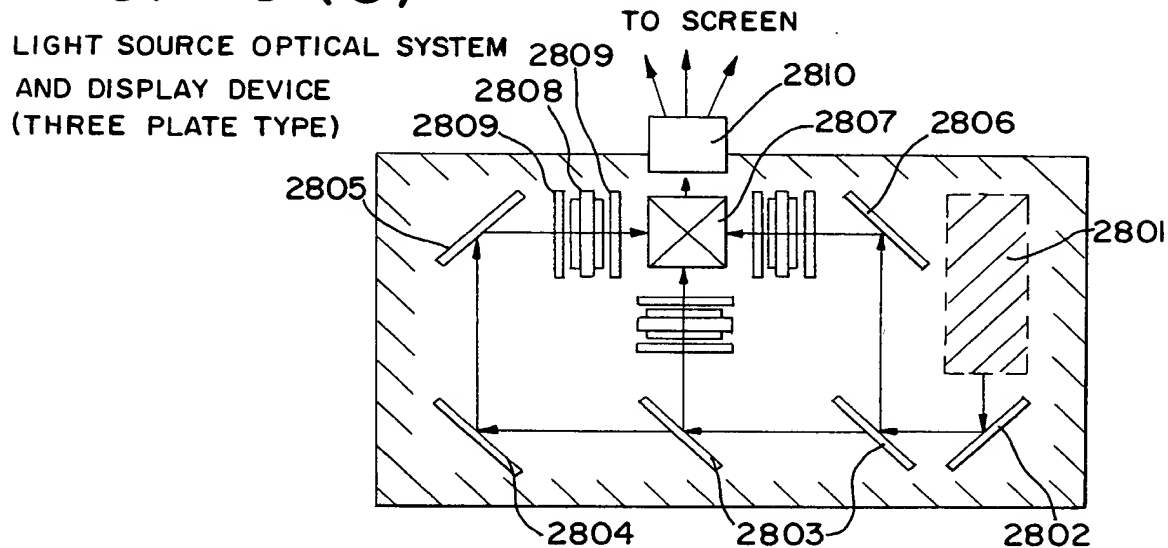


FIG. 23(D)

LIGHT SOURCE
OPTICAL SYSTEM

